

## Vectra<sup>®</sup> Neo

Simplified, Powerful Solutions ... Deliver the Results You Demand

The Vectra Neo is the new standard in physical medicine modalities. Its intelligent design (the result of over 100,000 hours of intensive R&D) is clever in its features, usability and clinical technology. Delivering an exceptional patient and therapist experience. Every element of the Vectra Neo has been expertly crafted, empowering the clinician to provide patients with a comprehensive level of rehabilitation.

Vectra Neo offers multimodality with 5 plug-and-play modules. Each unit can be assembled specifically for your customized clinical needs. And your unit can also adapt to your future needs by adding additional modules. The plug-and-play modules are easily installed in no time, without worrying about configuration and other settings.

Neo is also simple to use and a pleasure to navigate, thanks to the Clinical Protocol Setup<sup>™</sup> (CPS), which leads you through the functions of the device and each therapy.

Additionally, Neo offers a stunning anatomic library that illustrates an array of pathologies, making it easier for you to communicate with patients about their condition and educate them on further treatment options.

A completely modular setup allows you to choose among the components that best fit your practice. The unit has an integrated base with discreet, strong handles for carrying. The optional high-quality cart is stable, height-adjustable, moves with ease, and includes three roomy storage drawers with sturdy pull tracks.

Clinical excellence and increased productivity, Vectra Neo gives you the freedom to have both.



# Electrotherapy Waveforms

Waveforms		Description	Output Intensity	Phase Duration	Frequency (Hz)
Interferential Current IFC (4-Pole)		Interferential Current is distributed through two channels (four electrodes). The currents cross each other and interfere, resulting in a modulation of the intensity (the current intensity increases and decreases at a regular frequency).			2000-10000 (Carrier) 1 – 200 (Beat)
Premodulated IFC (2-Pole)		Premodulated Current comes out of one channel (two electrodes). The current intensity is modulated: it increases and decreases at a regular frequency.			2000-10000 (Carrier) 1 – 200 (Beat)
VMS™		A symmetrical biphasic waveform with a 100 µsec interphase interval. The short pulse has a low skin load, ideal for high intensities applications, such as muscle strengthening.	0-114 mA / 0-56 V	20-400 µsec	1-200
VMS™ Burst		A burst version of VMS™	0-65 mA / 0-32 V	20-400 µsec	1-200
VMS™ FR		A version of VMS where physiologically based channel interaction in which one channel stimulates the agonist & the other the antagonist of the muscle that is being exercised.	0-100 mA / 0-100 V	20-400 µsec	20-80
Asymmetrical Biphasic TENS		This waveform has a short pulse duration. It is capable of strong stimulation of the nerve fibers in the skin as well as of muscle tissue.	0-93 mA / 0-46 V	20-1,000 µsec	1-250
Symmetrical Biphasic TENS		A waveform with a short pulse duration. It is capable of strong stimulation of the nerve fibers in the skin as well as of muscle tissue.	0-73 mA / 0-36 V	20 - 1,000 µsec	1-250
Microcurrent		Microcurrent is a monophasic waveform of very low intensity. It is thought to stimulate tissue healing by stimulating the 'current of injury', a current which naturally occurs in healing tissue.	0-1000 µA		0.1-1000
Han Stimulation		This waveform provides optimal parameters with a precisely controlled sequence of Dense-and-Disperse (DD) modes of stimulation.	0-100 mA		
High Voltage Pulsed Current		This monophasic waveform has a very brief pulse duration with two distinct peaks. The short pulse duration and high voltage result in a decreased skin resistance and deep yet comfortable tissue penetration.	0-500 V		10-120
DC (Direct Current)		A direct current following in one direction only.	0-72 mA		
Russian		A sinusoidal waveform, delivered in bursts or series of pulses. Claimed to produce maximal muscle strengthening effects without significant discomfort to the patient.	0-100 mA / 0-90 V		



# Technical Specifications

## POWER (Combination and Electrotherapy Units)

Mains:	Input 100 - 240 V AC, 2.5A TO 1.25A, 50/60 HZ
Electrical Class:	CLASS I
Mode of Operation:	Continuous

### Electrical Type (Degree of Protection):

Ultrasound:	TYPE B
Laser:	TYPE B
Electrotherapy:	TYPE BF
Electrotherapy & sEMG:	TYPE BF
Ultrasound & Electrotherapy:	TYPE B

### Note:

All waveforms except High Voltage Pulsed Current (HVPC) have been designed with a 200 mA current limit. VMS™, VMS™ Burst and all TENS waveform output intensities are measured, specified, and listed to peak, not peak to peak.

## GENERAL SYSTEM OPERATING & STORAGE TEMPERATURE

### Operating conditions:

- Temperature: 10° C to 45° C
- Relative Humidity: 0% to 90%
- Atmospheric Pressure: 700hPa to 1060hPa

### Transport and storage conditions:

- Temperature: Above 0° C freezing to +60°C
- Relative Humidity: max 95%
- Atmospheric Pressure: 700hPa to 1060hPa

## DIMENSIONS & WEIGHTS

	Width	Depth	Height	Weight
Module	11.12" (28.2448 cm)	6.34" (16.1036 cm)	1.43" (3.6322 cm)	1LB (0.453592 kg)
Head @ 45 degree with Base (Tabletop)	15.89" (40.3606 cm)	15.89" (40.3606 cm)	22.05" (56.007 cm)	20.7LB (9.389362 kg)
Cart Lowered (with casters)	23.94" (60.8076 cm)	26.19" (66.5226 cm)	27.41" (69.6214 cm)	29.4LB (13.33562 kg)
Cart Raised (with casters)	23.94" (60.8076 cm)	26.19" (66.5226 cm)	30.15" (76.581 cm)	
Head and raised cart with screen @ 90deg	23.94" (60.8076 cm)	26.19" (66.5226 cm)	52.85" (134.239 cm)	48.9LB (22.18067 kg)

# Custom-Made Modality

Build the precise combination for your needs with five slide-in, plug-and-play module options; Channel 1/2 stim, Channel 1/2 stim/ EMG, Channel 3/4 stim, Laser and Ultrasound. Each unit is assembled and shipped specifically according to your customized clinical needs.



\*Applicator(s) must be ordered separately

Examples of different available configurations. Contact Chattanooga Customer Care at 866-512-2764 if you don't see your preferred configuration listed here.

2 channel tabletop stim with sEMG	2 channel tabletop combo with sEMG *	2 channel combo with cart *	2 channel combo with sEMG and cart *	2 channel combo with sEMG, laser and cart *	4 channel combo with cart *	4 channel combo with sEMG and cart *	4 channel combo with sEMG, laser and cart *
Required Part Numbers							
6000 70004	6000 70002 70004	6000 70000 70001 70002	6000 70002 70001 70004	6000 70002 70001 70004 70005	6000 70000 70001 70002 70003	6000 70001 70002 70003 70004	6000 70001 70002 70003 70004 70005

# Ordering information

## Vectra Neo Base Unit + Optional Cart

Part Number	Description
<b>Vectra® Neo</b>	
6000	Vectra Neo Base Unit
<b>Standard Accessories</b>	
13-7646	Vectra Neo User Manual
13-7647	Vectra Neo User Manual on CD
<b>Optional Accessories</b>	
70001	Vectra Neo Therapy System Cart



## Vectra Neo Ultrasound Module

Part Number	Description
<b>Vectra® Neo Ultrasound Module</b>	
70002	Vectra Neo Ultrasound Module
<b>Standard Accessories</b>	
13-8911	Ultrasound User Manual
13-7718	Modules User Manual on CD
<b>Optional Accessories</b>	
70001	Vectra Neo Therapy System Cart
70008	Vectra Neo Operator Remote
27333	1 cm² Sound Head Applicator
27334	2 cm² Sound Head Applicator
27335	5 cm² Sound Head Applicator
27336	10 cm² Sound Head Applicator

Applicator(s) must be specified when ordering Module



## Vectra Neo sEMG + Stim Module

Part Number	Description
<b>Vectra Neo sEMG and Channel 1/2 Stimulation Module</b>	
70004	Vectra Neo sEMG and Channel 1/2 Stimulation Module
<b>Standard Accessories</b>	
13-8905	Stim 1/2 Module User Manual
13-7718	Modules User Manual on CD
42182	Dura-Stick® Plus 2 inch round electrodes (2 packs of 4)
70010	Stim Ch 1/2 Leadwire Kit
70014	Stim Ch 1/2 + EMG Leadwire Kit
<b>Optional Accessories</b>	
70001	Vectra Neo Therapy System Cart
70008	Patient Remote/Laser Interrupt Switch
79977	HiVolt Probe
70012	XL Leadwire Kit



## Vectra Neo Channel 1/2 Stim Module

Part Number	Description
<b>Vectra Neo Channel 1/2 Stimulation Module</b>	
70000	Vectra Neo Channel 1/2 Stimulation Module
<b>Standard Accessories</b>	
13-8905	Stim 1/2 Module User Manual
13-7718	Modules User Manual on CD
42182	Dura-Stick® Plus 2 inch round electrodes (2 packs of 4)
70010	Stim Ch 1/2 Leadwire Kit
<b>Optional Accessories</b>	
70001	Vectra Neo Therapy System Cart
70008	Patient Remote/Laser Interrupt Switch
79977	HiVolt Probe
70012	XL Leadwire Kit







## Vectra Neo Channel 3/4 Stim Module

Part Number	Description
<b>Vectra Neo Channel 3/4 Stimulation Module</b>	
70003	Vectra Neo Channel 3/4 Stimulation Module
<b>Standard Accessories</b>	
13-8893	Stim 3/4 Module User Manual
13-7718	Modules User Manual on CD
42182	Dura-Stick® Plus 2 inch round electrodes (2 packs of 4)
70011	Stim Ch 3/4 Leadwire Kit
<b>Optional Accessories</b>	
70001	Vectra Neo Therapy System Cart
70008	Patient Remote/Laser Interrupt Switch
79977	HiVolt Probe
70013	XL Leadwire Kit



## Vectra Neo Laser Therapy Module

Part Number	Description
<b>Vectra Neo Laser Therapy Module</b>	
70005	Vectra Neo Laser Therapy Module
<b>Standard Accessories</b>	
13-8907	Laser Module User Manual
13-7718	Modules User Manual on CD
70008	Patient Remote/Laser Interrupt Switch
27525	Laser Protection Glasses
<b>Optional Accessories</b>	
70001	Vectra Neo Therapy System Cart
<b>Laser Applicators</b>	
<b>Singles</b>	
27799	LED Diode 10mW
27803	Laser Diode 40mW
27840	Laser Diode 100mW
27804	Laser Diode 150mW
27841	Laser Diode 200mW
27805	Laser Diode 300mW
<b>9 Diode Cluster</b>	
27810	290mW Total: 5x50mW Lasers, 4x10mW LED
27811	540mW Total: 5x100mW Lasers, 4x10mW LED
27812	1040mW Total: 5x200mW Lasers, 4x10mW LED
<b>13 Diode Cluster</b>	
27813	265mW Total: 3x50mW Lasers, 7x10mW LED, 3x15mW LED
27814	415mW Total: 3x100mW Lasers, 7x10mW LED, 3x15mW LED
27816	715mW Total: 3x200mW Lasers, 7x10mW LED, 3x15mW LED
<b>19 Diode Cluster</b>	
27815	325mW Total: 6x10mW LED, 7x25mW LED, 6x15mW LED
<b>33 Diode Cluster</b>	
27809	565mW Total: 12x10mW LED, 13x25mW LED, 8x15mW LED
27802	690mW Total: 5x50mW Lasers, 12x10mW LED, 8x25mW LED, 8x15mW LED
27807	940mW Total: 5x100mW Lasers, 12x10mW LED, 8x25mW LED, 8x15mW LED
27808	1440mW Total: 5x200mW Lasers, 12x10mW LED, 8x25mW LED, 8x15mW LED

**NOTE:** Applicator(s) must be specified when ordering Laser Module.



For more information on Vectra Neo, visit  
[DJOGlobal.com/chattanooga/vecraneo](http://DJOGlobal.com/chattanooga/vecraneo)



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